

CLAIMS

1. A fragmentable grenade (1), consisting:
 - an explosive charge (2),
- 5 - a layer (4) of elastically deformable projectiles (5) connected together by bridges of material (6) produced by moulding together with the projectiles (5), said layer (4) surrounding the charge (2) and being designed for enabling the projectiles (5) to separate and to disperse when the said charge (2) explodes.
- 10 2. A grenade according to the previous claim, characterised in that the layer (4) comprises half-projectiles (5a, 5b) assembled along an assembly line (A), in particular by gluing.
- 15 3. A grenade according to the one of the previous claims, characterised in that the bridges of material (6) are situated on the external side of the layer (4).
4. A grenade according to the one of the previous claims, characterised in that the thickness (e) of the bridges of material accounts for less than 10%, better less than 5% of the maximum thickness (E) of the projectiles.
- 20 5. A grenade according to the one of the previous claims, characterised in that the projectiles (5) are deprived of sharp edges.
6. A grenade according to the one of the previous claims, characterised in that the projectiles (5) exhibit radially internal and external faces, each at least partially and substantially in the form of a cylindrical portion and, between themselves, substantially planar and radial faces.
- 25 7. A grenade according to the one of the previous claims, characterised in that the projectiles (5) delineate an inner housing (15) wherein the charge (2) is placed.
8. A grenade according to the previous claim, characterised in that the inner housing (15) exhibits two widened portions (15b, 15c) at its axial ends.
- 30 9. A grenade according to the one of the previous claims, characterised in that the elastically deformable material whereof the projectiles are composed, has a hardness ranging between 20 and 55 Shore A, in particular between 35 and 45 Shore A, let alone approx. 40 Shore A.
- 35 10. A grenade according to the one of the previous claims, characterised in that it is deprived of an outer envelope.

11. A method of assembly of a fragmentable grenade, including the following steps:
 - the supply of a layer (4) of projectiles (5) connected together by bridges of material (6) obtained by moulding with the projectiles,
- 5 - the placement of an explosive charge (2) in an inner housing delineated by the layer.
12. A method of assembly of a layer of projectiles, including the following step:
 - moulding with an elastically deformable material, in particular a natural or synthetic elastomer, a layer (4) of projectiles (5) linked together with bridges of material (6) uniting them.
- 10 13. A method according to the previous claim, including the following step:
 - the layer having been moulded with an annular shape, taking the layer out of the mould thanks to the elasticity thereof, by applying externally a pressure smaller than the pressure existing on the inner side of the layer of projectiles, or by applying internally an overpressure.
- 15 14. A method according to one of both previous claims, characterised in that the layer (4) is immersed into a bath of a compound enabling to reduce the friction coefficient of the grenade.
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